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PATENTS ONLY

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TO THE HONORABLE DIRECTOR OF THE UNITED STATES PATENT AND TRADEMARK OFFICE. PLEASE RECORD THE ATTACHED ORIGINAL DOCUMENTS OR COPY THEREOF.

1. Name of conveying party(ies):

Lumileds Lighting B.V.

De Rijn 2,

5680 AK Best

The Netherlands

Additional name(s) of conveying party(ies) attached?

 Yes No

2. Name and address of receiving party(ies):

Name: Lumileds Lighting, U.S., LLCStreet Address: 370 W. Trimble RoadCity: San Jose State: CaliforniaZip: 95131Country: USA

3. Nature of Conveyance:

 Assignment Merger Security Agreement Change of Name Other _____Execution Date: November 20, 2002

Name and address of receiving party(ies):

Name:

Street Address:

City: _____ State: _____ Zip: _____

Country: _____

Additional name(s) & address(es) attached?

 Yes No

4. Application number(s) or patent number(s):

If this document is being filed together with a new application, the execution date of the application is: _____

A. Patent Application No.(s) -

09/645,939, 09/803,999, 10/144,828

B. Patent No.(s)

Additional numbers attached? Yes No

5. Name and address of party to whom correspondence concerning document should be mailed:

Name: Rachel V. LeitermanInternal Address: Patent Law Group LLPStreet Address: 2635 North First St., Suite 223City San Jose State CA Zip 951346. Total number of applications and patents involved: 37. Total fee (37 CFR 3.41): \$40.00 Authorized to be charged to Deposit Account 502226 Charge Deposit Account 502226 for any additional fees required for this conveyance and credit deposit account 502226 any amounts overpaid

DO NOT USE THIS SPACE

8. Statement and signature.

To the best of my knowledge and belief, the foregoing information is true and correct and any attached copy is a true copy of the original document.

Rachel V. Leiterman 46,868

Name of Person Signing



Signature

12/5/2002

Date

Total number of pages comprising cover sheet: 1

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1-9-03
AJONES

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicants: Matthijs H. Keuper
Assignee: Lumileds Lighting U.S. LLC
Title: Light-Emitting Diode, Lighting Device And Method Of Manufacturing
Same
Serial No.: 09/803,999 Filing Date: March 13, 2001
Examiner: Alexander Gilman Group Art Unit: 2833
Docket No.: PHNL000103 (M-11774 US)

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COMMISSIONER FOR PATENTS
Washington, D.C. 20231

POWER OF ATTORNEY BY ASSIGNEE OF ENTIRE INTEREST

Sir:

The above-identified assignee, hereby revokes all powers of attorney previously given and appoints the attorney(s) and/or agent(s) identified below to prosecute the above-identified application and to transact all business in the United States Patent and Trademark Office in connection therewith:



32566

PATENT TRADEMARK OFFICE

Please address all correspondence and telephone calls regarding this application to:

Rachel V. Leiterman
Patent Law Group LLP
2635 North First Street, Suite 223
San Jose, California 95134-2049
Phone: (408) 382-0480
Fax: (408) 382-0481

ASSIGNEE CERTIFICATION UNDER 37 CFR 3.73(B)

The undersigned representative of the above-identified assignee certifies that the above-identified assignee is the assignee of the entire right, title and interest in the above-identified patent application by virtue of a chain of title from the inventor(s) of the above-identified patent application to the above-identified assignee as shown below:

1. From: Matthijs H. Keuper. To: Lumileds Lighting B.V. The document was recorded in the Patent and Trademark Office at Reel 011880, Frame 0123.
2. From: Lumileds Lighting B.V. To: Lumileds Lighting U.S. LLC. A copy of the document is attached.

The undersigned (whose title is supplied below) is empowered to sign this certificate on behalf of the above-identified assignee.

Date: 12/18/02

Lumileds Lighting, U.S., LLC

By: Lou Dadok

Name: Lou Dadok

Title: Intellectual Property Manager

PATENT APPLICATION ASSIGNMENT

WHEREAS, LUMILEDS LIGHTING B.V. a Kingdom of the Netherlands corporation having its principal place of business at De Rijn 2, 5680 AK Best, The Netherlands (hereinafter "Lumileds B.V."), is the owner, by assignment, of the following United States Patent Applications (hereinafter "the Applications"):

U.S. Application Serial No.	Title
09/645,939	Luminaire, Optical Element And Method Of Illuminating An Object
09/803,999	Light-Emitting Diode, Lighting Device And Method Of Manufacturing Same
10/144,828	Illumination System And Display Device

AND WHEREAS, LUMILEDS LIGHTING, U.S., LLC, a Delaware Limited Liability Company having its principal place of business at 370 W. Trimble Road, San Jose, CA 95131, (hereinafter "Lumileds U.S."), desires to acquire the entire right, title and interest, including the right of priority, in, to and under the Applications.

NOW, THEREFOR, Lumileds B.V. does hereby assign and transfer to Lumileds U.S. the entire right, title, and interest, including the right of priority, in, to and under the Applications and the inventions and improvements set forth therein, and any and all continuations, continuations-in-part (C-I-P's) divisionals, and renewals of and substitutes for the Applications, and any and all patents of the United States and of countries foreign thereto that may be granted thereon or therefore; and any reissues, or reexaminations, or extensions thereof.

IN WITNESS WHEREOF, Lumileds B.V. and Lumileds U.S. have caused this Assignment to be executed by their authorized representatives. Each such authorized representative hereby declares that all statements made herein of their own knowledge are true and that all statements made on information and belief are believed to be true; and further that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under Section 1001 of Title 18 of the United States Code and that such willful false statements may jeopardize the validity of any patents related thereto.

LUMILEDS LIGHTING B.V.

By: N. T. Bestwick

Printed Name: N. T. Bestwick

Title: Director

Date: 11/28/02

LUMILEDS LIGHTING, U.S., LLC

By: N. T. Bestwick

Printed Name: N. T. Bestwick

Title: Director

Date: 11/28/02



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BOX: ASSIGNMENT
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WASHINGTON, D.C. 20231

Assignee: Lumileds Lighting, U.S., LLC
Title: Luminaire, Optical Element And Method Of Illuminating An Object
Title: Light-Emitting Diode, Lighting Device And Method Of Manufacturing
Same
Title: Illumination System And Display Device
Serial Nos.: 09/645,939, 09/803,999, 10/144,828
Filed: August 25, 2002; March 12, 2001; October 25, 2001
Atty Docket Nos.: M-9777 US, M-11774 US, PHNL000572

ENCLOSED:

1. Return Receipt Postcard;
2. Recordation Form Cover Sheet (1 page in duplicate);
3. Assignment (1 page).

RVL/ef
December 5, 2002